

FIG. 1

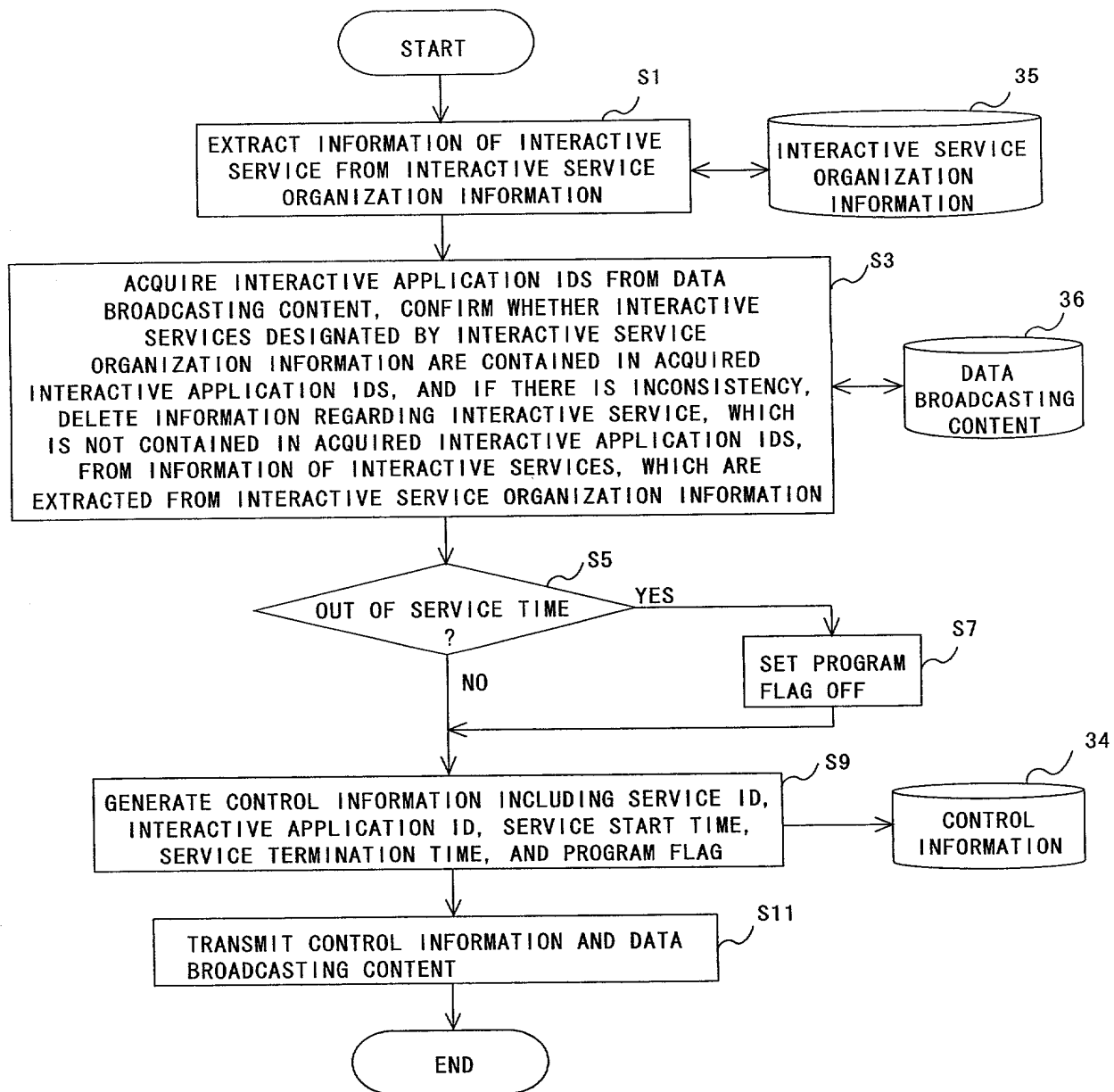


FIG. 2

SERVICE ID	BROADCASTING DATE	BROADCASTING START TIME	BROADCASTING TERMINATION TIME	MATERIAL ID	BROADCASTING PROGRAM NAME	BROADCASTING PROGRAM KANA	SERVICE NAME	SERVICE START TIME	SERVICE TERMINATION TIME
101	2001/2/27	19:00	20:00	quizA.bml	@quiz	AT-QUIZ	QUIZ1	19:10:30	19:20:30
101	2001/2/27	19:00	20:00	quizA.bml	@quiz	AT-QUIZ	QUIZ2	19:15:00	19:25:00
101	2001/2/27	19:00	20:00	quizA.bml	@quiz	AT-QUIZ	QUIZ3	19:18:00	19:28:00
101	2001/2/27	19:00	20:00	quizA.bml	@quiz	AT-QUIZ	QUIZ4	19:25:30	19:35:30
701	2001/2/27	13:00	14:00	quizA.bml	digl-quiz	DIGI-QUIZ	QUIZ1	13:00:00	13:20:00
701	2001/2/27	13:00	14:00	quizA.bml	digl-quiz	DIGI-QUIZ	QUIZ2	13:10:30	13:30:30
701	2001/2/27	13:00	14:00	quizC.bml	digl-quiz	DIGI-QUIZ	QUIZ3	13:19:00	13:39:00
701	2001/2/27	13:00	14:00	quizC.bml	digl-quiz	DIGI-QUIZ	QUIZ4	13:25:30	13:45:30
501	2001/2/27	20:00	21:00	quizA.bml	@quiz	AT-QUIZ	QUIZ1	20:10:30	20:20:30
501	2001/2/27	20:00	21:00	quizA.bml	@quiz	AT-QUIZ	QUIZ2	20:15:00	20:25:00
501	2001/2/27	20:00	21:00	quizA.bml	@quiz	AT-QUIZ	QUIZ3	20:18:00	20:28:00
501	2001/2/27	20:00	21:00	quizA.bml	@quiz	AT-QUIZ	QUIZ4	20:25:30	20:35:30

FIG. 3

MATERIAL ID	SERVICE NAME	INTERACTIVE APPLICATION ID
quizA.bml	QUIZ1	A-01
quizA.bml	QUIZ2	A-02
quizA.bml	QUIZ3	B-01
quizA.bml	QUIZ4	B-02
quizC.bml	QUIZ3	B-03
quizC.bml	QUIZ4	B-04

FIG. 4

SERVICE ID	INTERACTIVE APPLICATION ID	DATE	SERVICE START TIME	SERVICE TERMINATION TIME	PROGRAM FLAG
101	APPLICATION ID-A1	2001/2/27	START TIME-1	TERMINATION TIME-1	ON OR OFF
101	APPLICATION ID-A2	2001/2/27	START TIME-2	TERMINATION TIME-2	ON OR OFF
101	APPLICATION ID-A3	2001/2/27	START TIME-3	TERMINATION TIME-3	ON OR OFF
101	APPLICATION ID-B1	2001/2/27	START TIME-4	TERMINATION TIME-4	ON OR OFF
101	APPLICATION ID-B2	2001/2/27	START TIME-5	TERMINATION TIME-5	ON OR OFF
701	APPLICATION ID-B1	2001/2/27	START TIME-6	TERMINATION TIME-6	ON OR OFF
701	APPLICATION ID-B2	2001/2/27	START TIME-7	TERMINATION TIME-7	ON OR OFF

FIG. 5

SERVICE ID	INTERACTIVE APPLICATION ID	DATE	SERVICE START TIME	SERVICE TERMINATION TIME	PROGRAM FLAG
501	APPLICATION ID-A1	2001/2/27	START TIME-11	TERMINATION TIME-11	ON OR OFF
501	APPLICATION ID-A2	2001/2/27	START TIME-12	TERMINATION TIME-12	ON OR OFF
501	APPLICATION ID-A3	2001/2/27	START TIME-13	TERMINATION TIME-13	ON OR OFF
501	APPLICATION ID-B1	2001/2/27	START TIME-14	TERMINATION TIME-14	ON OR OFF
501	APPLICATION ID-B2	2001/2/27	START TIME-15	TERMINATION TIME-15	ON OR OFF

FIG. 6

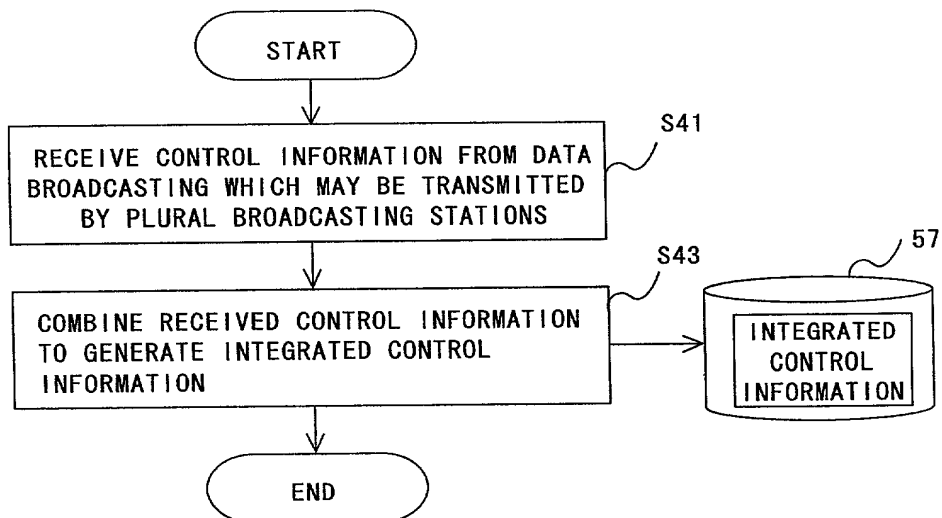


FIG. 8

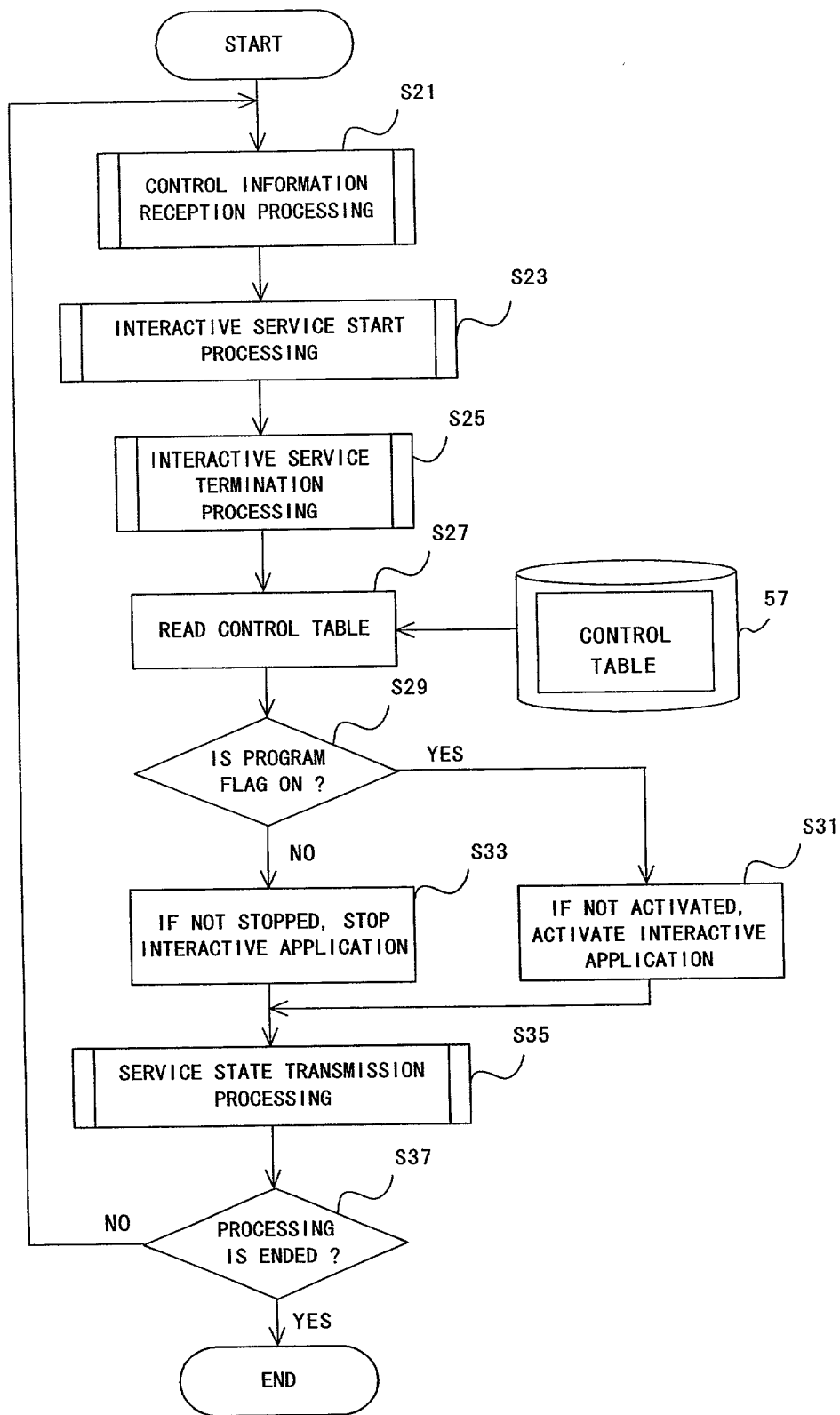


FIG. 7

FIG. 9

901 SERVICE ID	902 INTERACTIVE APPLICATION ID	903 DATE	904 SERVICE START TIME	905 SERVICE TERMINATION TIME	906 PROGRAM FLAG
101	APPLICATION ID-A1	2001/2/27	START TIME-1	TERMINATION TIME-1	ON OR OFF
101	APPLICATION ID-A2	2001/2/27	START TIME-2	TERMINATION TIME-2	ON OR OFF
101	APPLICATION ID-A3	2001/2/27	START TIME-3	TERMINATION TIME-3	ON OR OFF
101	APPLICATION ID-B1	2001/2/27	START TIME-4	TERMINATION TIME-4	ON OR OFF
101	APPLICATION ID-B2	2001/2/27	START TIME-5	TERMINATION TIME-5	ON OR OFF
701	APPLICATION ID-B1	2001/2/27	START TIME-6	TERMINATION TIME-6	ON OR OFF
701	APPLICATION ID-B2	2001/2/27	START TIME-7	TERMINATION TIME-7	ON OR OFF
501	APPLICATION ID-A1	2001/2/27	START TIME-11	TERMINATION TIME-11	ON OR OFF
501	APPLICATION ID-A2	2001/2/27	START TIME-12	TERMINATION TIME-12	ON OR OFF
501	APPLICATION ID-A3	2001/2/27	START TIME-13	TERMINATION TIME-13	ON OR OFF
501	APPLICATION ID-B1	2001/2/27	START TIME-14	TERMINATION TIME-14	ON OR OFF
501	APPLICATION ID-B2	2001/2/27	START TIME-15	TERMINATION TIME-15	ON OR OFF

FIG. 9

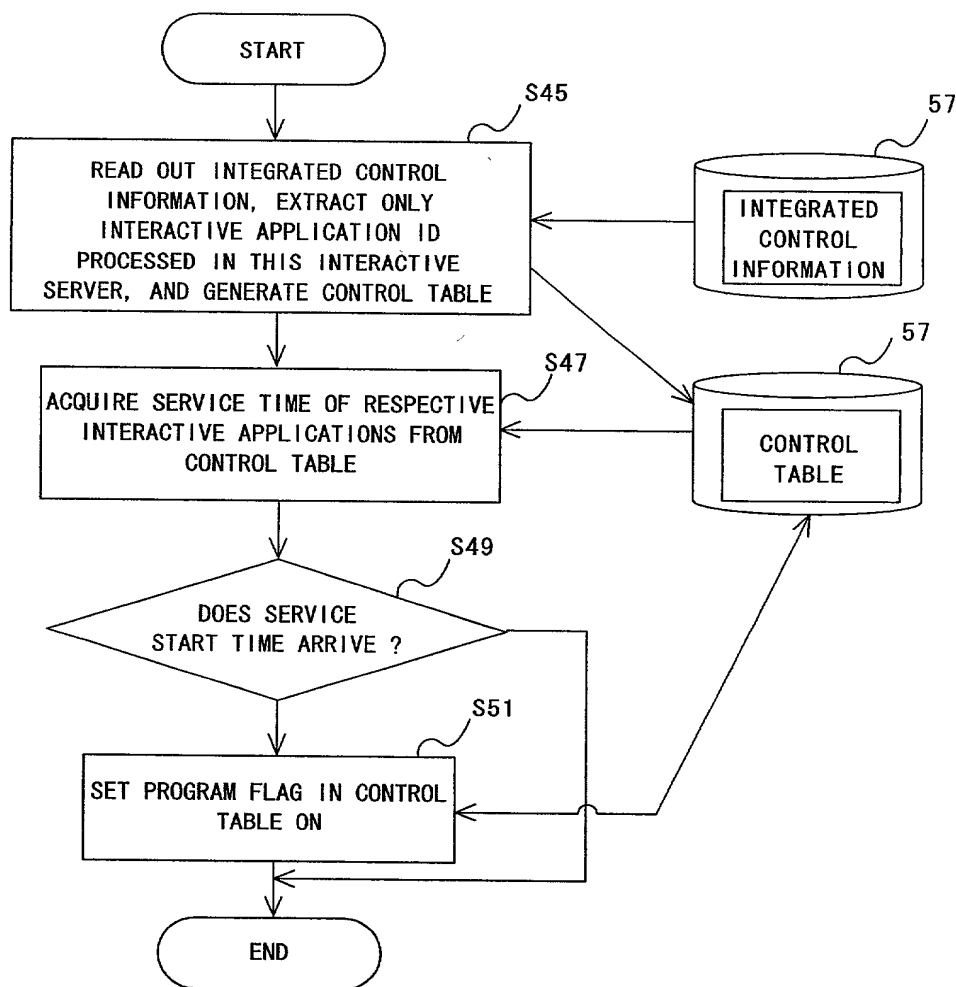


FIG. 10

Patented Feb. 23, 2006

SERVICE ID	INTERACTIVE APPLICATION ID	DATE	SERVICE START TIME	SERVICE TERMINATION TIME	PROGRAM FLAG
101	APPLICATION ID-A1	2001/2/27	START TIME-1	TERMINATION TIME-1	ON OR OFF
101	APPLICATION ID-A2	2001/2/27	START TIME-2	TERMINATION TIME-2	ON OR OFF
101	APPLICATION ID-A3	2001/2/27	START TIME-3	TERMINATION TIME-3	ON OR OFF
501	APPLICATION ID-A1	2001/2/27	START TIME-11	TERMINATION TIME-11	ON OR OFF
501	APPLICATION ID-A2	2001/2/27	START TIME-12	TERMINATION TIME-12	ON OR OFF
501	APPLICATION ID-A3	2001/2/27	START TIME-13	TERMINATION TIME-13	ON OR OFF

FIG. 11

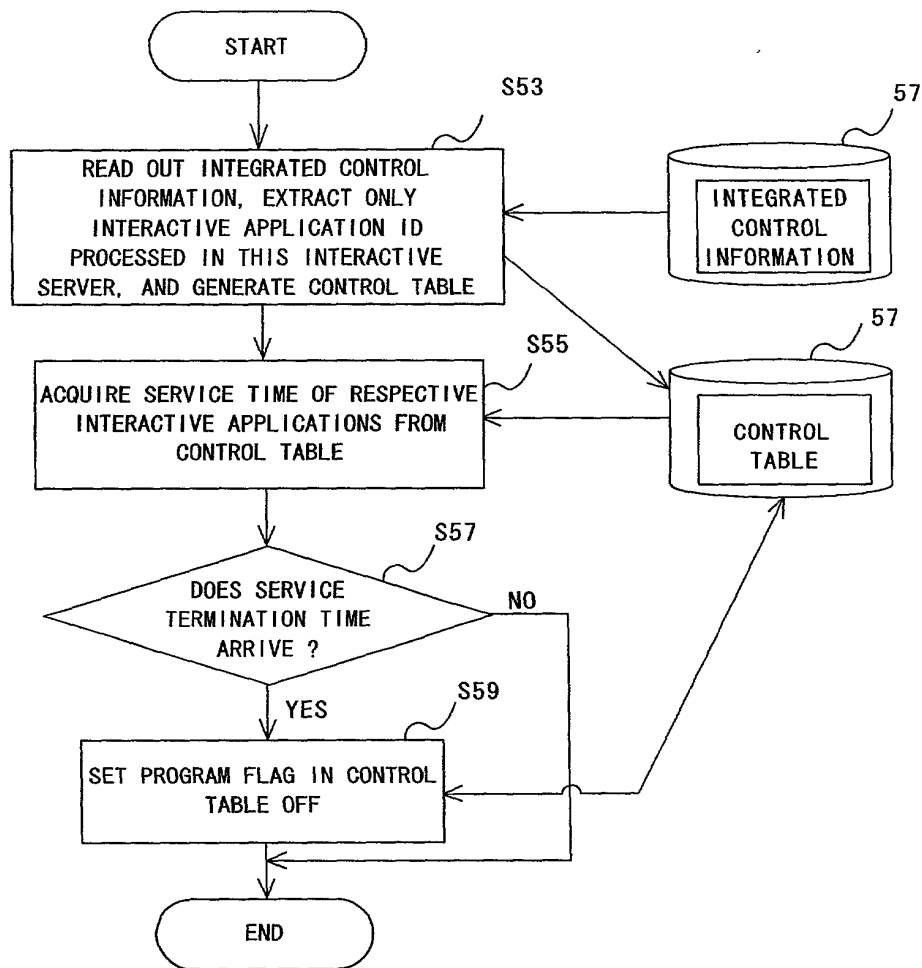


FIG. 12

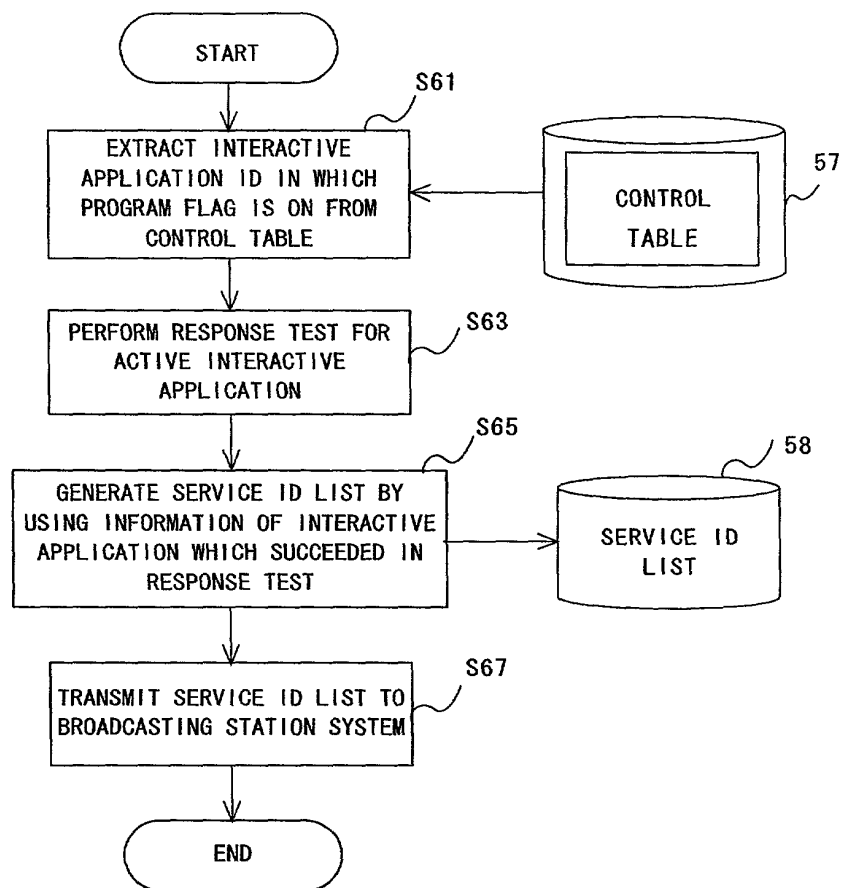


FIG. 13

FIG. 14

INTERACTIVE APPLICATION ID	SERVICE ACTIVATION STATE	SERVICE TERMINATION TIME
APPLICATION ID-A1	ACTIVE	TERMINATION TIME-1
APPLICATION ID-A2	ACTIVE	TERMINATION TIME-2
APPLICATION ID-A3	ACTIVE	TERMINATION TIME-3
APPLICATION ID-A1	ACTIVE	TERMINATION TIME-11
APPLICATION ID-A2	ACTIVE	TERMINATION TIME-12
APPLICATION ID-A3	ACTIVE	TERMINATION TIME13

FIG. 14

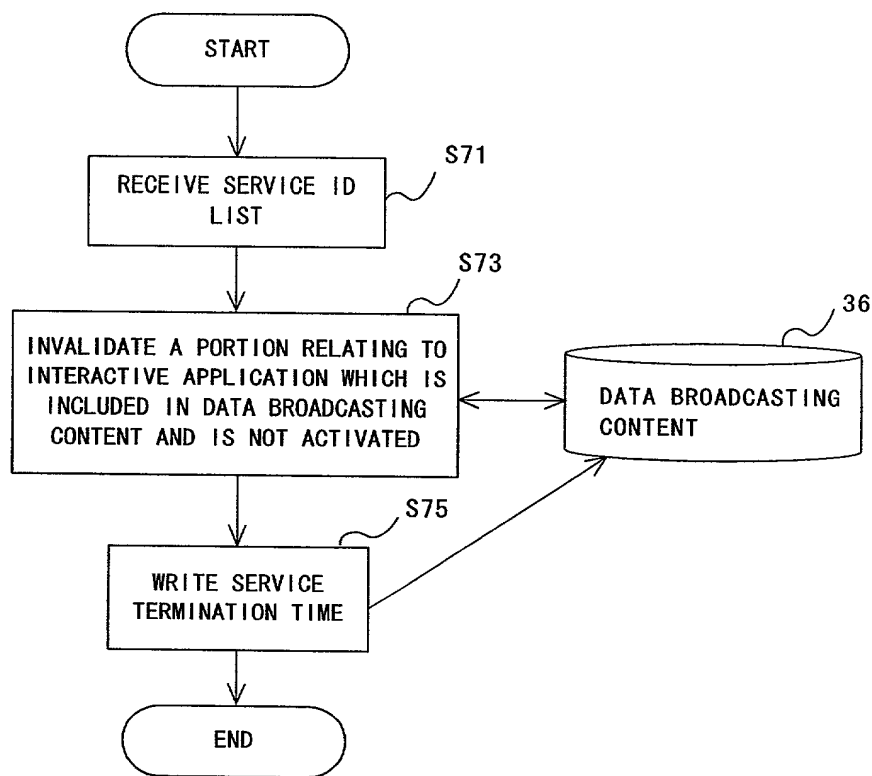


FIG. 15